STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING
ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: _____ *10/569,587*

Source: _____ *I FWP*

Date Processed by STIC: _____ *03/13/2006*

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PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:
1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

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> http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
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Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<**http://www.uspto.gov/ebc/efs/downloads/documents.htm>** , **EFS Submission User Manual** - ePAVE)
2. **U.S. Postal Service:** Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. **Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):**
   U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

IFWP

```
 3 <110> APPLICANT: Akashi, Akira
 4         Hasegawa, Susumu
 5         Takata, Kazutaka
 7 <120> TITLE OF INVENTION: NOVEL MICROORGANISM AND PROCESS FOR TREATMENT OF ORGANIC
SOLID MATTER
 8         USING THE MICROORGANISM
10 <130> FILE REFERENCE: 4605-060308
C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/569,587
C--> 13 <141> CURRENT FILING DATE: 2006-02-23
15 <150> PRIOR APPLICATION NUMBER: JP 2003-209106
16 <151> PRIOR FILING DATE: 2003-08-27
18 <160> NUMBER OF SEQ ID NOS: 6
20 <170> SOFTWARE: MicrosoftWord 2003
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 1495
24 <212> TYPE: DNA
25 <213> ORGANISM: Geobacillus sp. SPT4
27 <220> FEATURE:
29 <400> SEQUENCE: 1
30 gaacgctggc ggcgtgccta atacatgcaa gtcgagcgga ccggacagga gcttgctctt    60
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32 actccgggaa accggagcta ataccggata acaccgaaga ccgcatggtc ttcggttgaa   180
33 aggcggcttt ggctgtcact tacggatggg cccgcggcgc attagctagt tggtgaggta   240
34 acggctcacc aaggcgacga tgcgtagccg gcctgagagg gtgaccggcc acactgggac   300
35 tgagacacgg cccagactcc tacgggaggc agcagtaggg aatcttccgc aatggacgaa   360
36 agtctgacgg agcgacgccg cgtgagcgaa gaaggtcttc ggatcgtaaa gctctgttgt   420
37 tagggaagaa gaagtaccgt tcgaataggg cggtacggtg acggtaccta acgagaaagc   480
38 cccggctaac tacgtgccag cagccgcggt aatacgtagg ggcgagcgtt gtccggaatt   540
39 attgggcgta aagcgcgcgc aggcggtccc ttaagtctga tgtgaaagcc cacggctcaa   600
40 ccgtggaggg tcattggaaa ctgggggact tgagtgcaga agaggagagc ggaattccac   660
41 gtgtagcggt gaaatgcgta gagatgtgga ggaacaccag tggcgaaggc ggctctctgg   720
42 tctgtaactg acgctgaggc gcgaaagcgt ggggagcaaa caggattaga taccctggta   780
43 gtccacgccg taaacgatga gtgctaagtg ttagaggggt caaacccttt agtgctgcag   840
44 ctaacgcgtt aagcactccg cctggggagt acggccgcaa ggctgaaact caaaggaatt   900
45 gacggggggc cgcacaagcg gtggagcatg tggtttaatt cgaagcaacg cgaagaacct   960
46 taccaggtct tgacatcccc tgacaaccct agagatcagg cgttcccct tcggggggac  1020
47 agggtgacag gtggtgcatg gttgtcgtca gctcgtgtcg tgagatgttg ggttaagtcc  1080
48 cgcaacgagc gcaacccctc g accttagttg ccagcattca gttgggcact ctaaggtgac 1140
49 tgccgatgac aaatcggagg aaggtgggga tgacgtcaaa tcatcatgcc ccttatgacc  1200
50 tgggctacac acgtgctaca atgggcggta caaagggctg cgaacccgcg agggggagcg  1260
51 aatcccaaaa agccgctctc agttcggatt gcaggctgca actcgcctgc atgaagccgg  1320
52 aatcgctagt aatcgcggat cagcatgccg cggtgaatac gttcccgggc cttgtacaca  1380
53 ccgcccgtca caccacgaga gcttgcaaca cccgaagtcg gtgaggtaac cctttcggga  1440
54 gccagccgcc gaaggtgggg caagtgattg gggtgaagtc gtaacagggt agcca        1495
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RAW SEQUENCE LISTING   DATE: 03/13/2006
PATENT APPLICATION: US/10/569,587   TIME: 12:07:56

Input Set : **A:\PTO.DA.txt**
Output Set: **N:\CRF4\03132006\J569587.raw**

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56 <210> SEQ ID NO: 2
57 <211> LENGTH: 1498
58 <212> TYPE: DNA
59 <213> ORGANISM: Geobacillus sp. SPT5
61 <220> FEATURE:
63 <400> SEQUENCE: 2
64 agaacgctgg cggcgtgcct aatacatgca agtcgagcgg actgaatggg agcttgctct          60
65 tgttcggtca gcggcggacg ggtgagtaac acgtgggcaa cctgcccgca agaccgggat         120
66 aactccggga aaccggagct aataccggat aacaccgaag accgcatggt ctttggttga         180
67 aaggcggcgc aagctgccac ttgcggatgg gcccgcggcg cattagctag ttggtgaggt         240
68 aacggctcac caaggcgacg atgcgtagcc ggcctgagag ggtgaccggc cacactggga         300
69 ctgagacacg gcccagactc ctacgggagg cagcagtagg gaatcttccg caatgggcga         360
70 aagcctgacg gagcgacgcc gcgtgagcga agaaggcctt cgggtcgtaa agctctgttg         420
71 tgagggacga aggagcgccg tttgaagaag gcggcgcggt gacggtacct cacgaggaag         480
72 ccccggctaa ctacgtgcca gcagccgcgg taatacgtag gggcgagcgt tgtccggaat         540
73 tattgggcgt aaagcgcgcg caggcggttc cttaagtctg atgtgaaagc ccacggctca         600
74 accgtggagg gtcattggaa actgggggac ttgagtgcag gagaggagag cggaattcca         660
75 cgtgtagcgg tgaaatgcgt agagatgtgg aggaacacca gtggcgaagg cggctctctg         720
76 gcctgcaact gacgctgagg cgcgaaagcg tggggagcaa acaggattag ataccctggt         780
77 agtccacgcc gtaaacgatg agtgctaagt gttagagggg tcacacccct tagtgctgca         840
78 gctaacgcga taagcactcc gcctggggag tacggccgca aggctgaaac tcaaaggaat         900
79 tgacggggggc cgcacaagc ggtggagcat gtggtttaat tcgaagcaac gcgaagaacc         960
80 ttaccaggtc ttgacatccc ctgacaaccc aagagattgg gcgttccccc ttcggggggga        1020
81 cagggtgaca ggtggtgcat ggttgtcgtc agctcgtgtc gtgagatgtt gggttaagtc        1080
82 ccgcaacgag cgcaaccctt cgcctctagt tgccagcatt cggttgggca ctctagaggg        1140
83 actgccggcg acaagtcgga ggaaggtggg gatgacgtca aatcatcatg ccccttatga        1200
84 cctgggctac acacgtgcta caatgggcgg tacaaagggc tgcgaacccg cgagggggag        1260
85 cgaatcccaa aaagccgctc tcagttcgga ttgcaggctg caactcgcct gcatgaagcc        1320
86 ggaatcgcta gtaatcgcgg atcagcatgc cgcggtgaat acgttcccgg gccttgtaca        1380
87 caccgcccgt cacaccacga gagcttgcaa cacccgaagt cggtgaggca acccgtttcg        1440
88 ggagccagcc gccgaaggtg gggcaagtga ttggggtgaa gtcgtaacag ggtagcca         1498
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91 <211> LENGTH: 1495
92 <212> TYPE: DNA
93 <213> ORGANISM: Geobacillus sp. SPT6
95 <220> FEATURE:
97 <400> SEQUENCE: 3
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99 gttcggttag cggcggacgg gtgagtaaca cgtgggcaac ctacccgtaa gaccgggata         120
100 actccgggaa accggagcta ataccggata acaccgaaga ccgcatggtc ttcggttgaa         180
101 aggcggcttt ggctgtcact tacggatggg cccgcggcgc attagctagt tggtgaggta         240
102 acggctcacc aaggcgacga tgcgtagccg gcctgagagg gtgaccggcc acactgggac         300
103 tgagacacgg cccagactcc tacgggaggc agcagtaggg aatcttccgc aatggacgaa         360
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105 tagggaagaa gaagtaccgt tcgaataggg cggtacggtg acggtaccta cgagaaagc         480
106 cccggctaac tacgtgccag cagccgcggt aatacgtagg ggcgagcgtt gtccggaatt         540
107 attgggcgta aagcgcgcgc aggcggtccc ttaagtctga tgtgaaagcc cacggctcaa         600
108 ccgtggaggg tcattggaaa ctgggggact tgagtgcaga gaggagagcg gaattccac          660
109 gtgtagcggt gaaatgcgta gagatgtgga ggaacaccag tggcgaaggc ggctctctgg         720
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RAW SEQUENCE LISTING   DATE: 03/13/2006
PATENT APPLICATION: US/10/569,587   TIME: 12:07:56

Input Set : A:\PTO.DA.txt
Output Set: N:\CRF4\03132006\J569587.raw

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110 tctgtaactg acgctgaggc gcgaaagcgt ggggagcaaa caggattaga taccctggta        780
111 gtccacgccg taaacgatga gtgctaagtg ttagaggggt caaacccttt agtgctgcag        840
112 ctaacgcgtt aagcactccg cctggggagt acggccgcaa ggctgaaact caaaggaatt        900
113 gacggggggcc cgcacaagcg gtggagcatg tggtttaatt cgaagcaacg cgaagaacct       960
114 taccaggtct tgacatcccc tgacaaccct agagataggg cgttcccct tcgggggggac       1020
115 agggtgacag gtggtgcatg gttgtcgtca gctcgtgtcg tgagatgttg ggttaagtcc       1080
116 cgcaacgagc gcaaccctcg accttagttg ccagcattca gttgggcact ctaaggtgac       1140
117 tgccgatgac aaatcggagg aaggtgggga tgacgtcaaa tcatcatgcc ccttatgacc       1200
118 tgggctacac acgtgctaca atgggcggta caaagggctg cgaacccgcg aggggggagcg      1260
119 aatcccaaaa agccgctctc agttcggatt gcaggctgca actcgcctgc atgaagccgg       1320
120 aatcgctagt aatcgcggat cagcatgccg cggtgaatac gttcccgggc cttgtacaca       1380
121 ccgcccgtca caccacgaga gcttgcaaca cccgaagtcg gtgaggtaac cctttcggga       1440
122 gccagccgcc gaaggtgggg caagtgattg gggtgaagtc gtaacagggt agcca           1495
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124 <210> SEQ ID NO: 4
125 <211> LENGTH: 1498
126 <212> TYPE: DNA
127 <213> ORGANISM: Geobacillus sp. SPT7
129 <220> FEATURE:
130 <221> NAME/KEY: misc_feature
131 <222> LOCATION: (721)..(780)
132 <223> OTHER INFORMATION: n= nucleotide that cannot be defined otherwise
134 <220> FEATURE:
135 <221> NAME/KEY: misc_feature
136 <222> LOCATION: (1081)..(1140)
137 <223> OTHER INFORMATION: n= nucleotide that cannot be defined otherwise
139 <220> FEATURE:
140 <221> NAME/KEY: misc_feature
141 <222> LOCATION: (1381)..(1440)
142 <223> OTHER INFORMATION: n= nucleotide that cannot be defined otherwise
145 <400> SEQUENCE: 4

```
146 gagaacgctg gcggcgtgcc taatacatgc aagtcgagcg gaccaaatcg gagcttgctc         60
147 tgatttggtc agcggcggac gggtgagtaa cacgtgggca acctgcccgc aagaccggga        120
148 taactccggg aaaccggagc taataccgga taacaccgaa gaccgcatgg tctttggttg        180
149 aaaggcggcc tttggctgtc acttgcggat gggcccgcgg cgcattagct agttggtgag        240
150 gtaacggctc accaaggcga cgatgcgtag ccggcctgag agggtgaccg gccacactgg        300
151 gactgagaca cggcccagac tcctacggga ggcagcagta gggaatcttc cgcaatgggc        360
152 gaaagcctga cggagcgacg ccgcgtgagc gaagaaggcc ttcgggtcgt aaagctctgt        420
153 tgtgagggac gaaggagcgc cgttcgaaga gggcggcgcg gtgacggtac ctcacgagga        480
154 agccccggct aactacgtgc cagcagccgc ggtaatacgt aggggcgagc gttgtccgga        540
155 attattgggc gtaaagcgcg cgcaggcggt tccttaagtc tgatgtgaaa gcccacggct        600
156 caaccgtgga gggtcattgg aaactggggg acttgagtgc aggagaggag agcggaattc        660
157 cacgtgtagc ggtgaaatgc gtagagatgt ggaggaacac cagtggcgaa ggcggctctc        720
```
W--> 158 tggcctgcaa ctgacgctga ggcgcgaaag cntggggagc aaacaggatt agataccctg   780
```
159 gtagtccacg ccgtaaacga tgagtgctaa gtgttagagg ggtcacaccc tttagtgctg        840
160 cagctaacgc gataagcact ccgcctgggg agtacggccg caaggctgaa actcaaagga        900
161 attgacgggg gcccgcacaa gcggtggagc atgtggttta attcgaagca acgcgaagaa        960
162 ccttaccagg tcttgacatc ccctgacaac ccaagagatt gggcgttccc ccttcggggg       1020
163 gacagggtga caggtggtgc atggttgtcg tcagctcgtg tcgtgagatg ttgggttaag       1080
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W--> 164 tcccgcaacg agcgcaaccc tcgcctctag ttgccagcac gaangtgggc actctagagg   1140
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RAW SEQUENCE LISTING           DATE: 03/13/2006
PATENT APPLICATION:   US/10/569,587       TIME: 12:07:56

Input Set : **A:\PTO.DA.txt**
Output Set: **N:\CRF4\03132006\J569587.raw**

```
        165 gactgccggc gacaagtcgg aggaaggtgg ggatgacgtc aaatcatcat gccccttatg        1200
        166 acctgggcta cacacgtgct acaatgggcg gtacaaaggg ctgcgaaccc gcgaggggga        1260
        167 gcgaatccca aaaagccgct ctcagttcgg attgcaggct gcaactcgcc tgcatgaagc        1320
        168 cggaatcgct agtaatcgcg gatcagcatg ccgcggtgaa tacgttcccg ggccttgtac        1380
W-->    169 acaccgcccg tcacaccacg agagcttgca acacccgaag tcggtgnggt aacccttacg        1440
        170 ggagccagcc gccgaaggtg gggcaagtga ttggggtgaa gtcgtaacag ggtagcca         1498
        172 <210> SEQ ID NO: 5
        173 <211> LENGTH: 20
        174 <212> TYPE: DNA
        175 <213> ORGANISM: Artificial Sequence
        177 <220> FEATURE:
W-->    179 <223> OTHER INFORMATION:
W-->    179 <400> 5
        180 agagtttgat cctgcctcag
        182 <210> SEQ ID NO: 6
        183 <211> LENGTH: 19
        184 <212> TYPE: DNA
        185 <213> ORGANISM: Artificial Sequence
        187 <220> FEATURE:
W-->    189 <223> OTHER INFORMATION:
W-->    189 <400> 6
        190 ggctaccttg ttacgactt                                                     19
```

[Handwritten note:] If <2137 Response is Artificial. Pls Explain the Source of genetic Material. See pages for Error Explanation.

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 03/13/2006
PATENT APPLICATION: US/10/569,587   TIME: 12:07:57

Input Set : **A:\PTO.DA.txt**
Output Set: **N:\CRF4\03132006\J569587.raw**

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 752,1124,1427

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49
Seq#:1; Line(s) 50,51,52,53,54
Seq#:2; Line(s) 64,65,66,67,68,69,70,71,72,73,74,75,76,77,78,79,80,81,82,83
Seq#:2; Line(s) 84,85,86,87,88
Seq#:3; Line(s) 98,99,100,101,102,103,104,105,106,107,108,109,110,111,112
Seq#:3; Line(s) 113,114,115,116,117,118,119,120,121,122
Seq#:4; Line(s) 146,147,148,149,150,151,152,153,154,155,156,157,158,159,160
Seq#:4; Line(s) 161,162,163,164,165,166,167,168,169,170
Seq#:5; Line(s) 180
Seq#:6; Line(s) 190

Error Explanation

Use of <220> Feature(NEW RULES):
Sequence(s) are missing the <220> Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213> ORGANISM is "Artificial Sequence"
or"Unknown". Please explain source of genetic material in <220> to <223>
section (See "Federal Register," 6/01/98, Vol. 63, No. 104,pp.29631-32)
(Sec.1.823 of new Rules)

Seq#:5,6

VERIFICATION SUMMARY
PATENT APPLICATION: **US/10/569,587**

DATE: 03/13/2006
TIME: 12:07:57

Input Set : **A:\PTO.DA.txt**
Output Set: **N:\CRF4\03132006\J569587.raw**

```
L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:158 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:720
L:164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:1080
L:169 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:1380 .
L:179 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:5, <213>
ORGANISM:Artificial Sequence
L:179 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:5,Line#:179
L:189 M:258 W: Mandatory Feature missing, <223> Tag not found for SEQ#:6, <213>
ORGANISM:Artificial Sequence
L:189 M:258 W: Mandatory Feature missing, <223> Blank for SEQ#:6,Line#:189
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